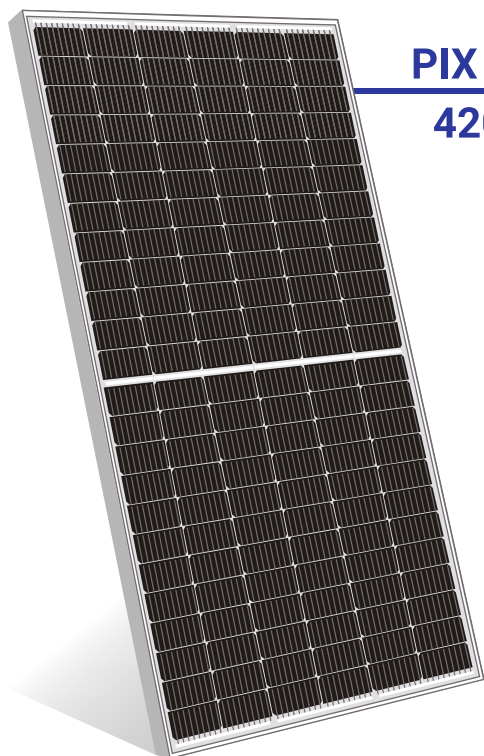


Mono Crystalline PERC Half-Cut Cell PV Modules



PIX MPH 144
420-450 Wp



Power Tolerance
+4.99Wp



Efficiency Upto
20.73 %



Module Warranty
12 Years



Output Warranty
27 Years

KEY FEATURES



PID Resistance with long term reliability.



Better Performance even at low irradiation.



Maximum System Voltage:
1500 V DC.



Increased string length & low
BOS Cost.



Withstand upto **5400 Pa** of
snow load.



Withstand upto **2400 Pa** of
wind load.



Rigorous Testing Criteria
100% EL Inspection ensuring
defect-free modules.

IDEAL FOR: Utility Projects, Commercial & Industrial Projects, Residential Projects, Institutional Projects, Off-grid Projects

PIXON GREEN ENERGY PRIVATE LIMITED

Manufacturing Unit: R.S. No.: 157/1, 158/1, 158/2, 165/1, 166 of Khijadiya Nana, R.S. No.: 15/1, Rajkot – Jamnagar Highway, Paddhari, Rajkot – 360110

1800 108 8800 | sales@pixonenergy.com

ABOUT PIXON

PIXON is a venture of the Marwadi group. It is equipped with the state-of-the-art technology and turnkey machinery of 1 GW line capacity for solar modules and houses clean room environment facility to 1GW manufacturing line for EVA films. As the world adheres to solar energy revolution, PIXON envisions to globally provide efficient solar energy products and solutions. Thus, enhance and contribute to Global Climate Sustainability.

CERTIFICATIONS

ALMM



ALMM APPROVED

IEC (International Electrotechnical Commission)

- IEC 61215-1:2021
- IEC 61215-1-1:2021
- IEC 61215-2:2021
- IEC 61730-1:2016
- IEC 61730-2:2016
- IEC TS 61701 Ed.3 :2020 Severity-6
- IEC TS 62804-1:2015
- IEC 61853-1:2011
- IEC 61853-2:2016
- IEC 62716:2013
- IEC 60068-2-68:1994-08
- IEC TS 63342:2022

BIS: Bureau of Indian Standards

- IS 14286:2010
- IS 61730-1:2004
- IS 61730-2:2004

US Certification

- UL 61730-1:2022
- UL 61730-2:2022

ISO Certification

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018(OHSAS)

CE Mark Testing & Certification

CLASS II

*Due to continuous product updation, specifications may change without notice.



**Solar is
the new Green!**

PIX MPH 144 450

M6

450W

20.73%

+4.99Wp

≤2.0%

Mono Crystalline Perc PV Modules

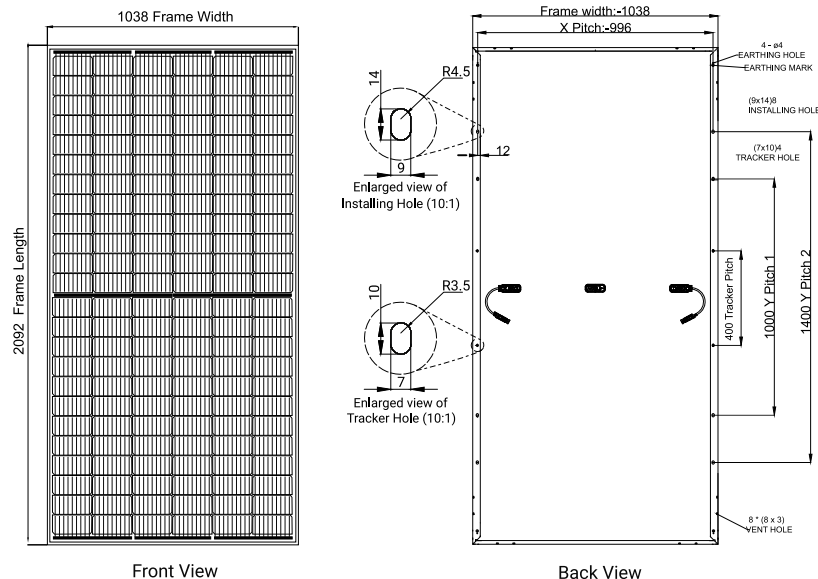
9 BB HALF-CUT CELL
MODULE

MAXIMUM
POWER OUTPUT

MAXIMUM
EFFICIENCY

POWER
TOLERANCE

FIRST YEAR
POWER DEGRADATION



*All Dimensions are in mm.
*Cable Length may vary based on Requirements.

MECHANICAL DATA

Cells Specifications (Number, Size)	144 Cells , 166 mm X 83 mm
Module Dimensions	2092 mm X 1038 mm X 35 mm
Weight	27 kg
Glass	High Transmission Low Iron Tempered Glass, AR coated, 3.2 mm (T)
Embedding	Low Shrinkage PID Resistance EVA, UV Resistant
Backsheet	PVDF / Tedlar
Junction Box	IP 68 Rated
Number of Diodes	3 Bypass Diodes
Cables & Connectors	Cable Length 400mm, 4mm ² , MC4 Connectors / MC4 Compatible
Frame	Anodized Aluminum Alloy Silver Profile (Black Frame Available on Request)

MECHANICAL LOAD TEST PARAMETERS

Front Side Maximum Static Load	5400Pa
Rear Side Maximum Static Load	2400Pa

TEMPERATURE RATING

NOCT (Nominal Operating Cell Temperature)	45°C (±2°C)
Temperature Coefficient of Current (Isc)	0.04% / °C
Temperature Coefficient of Voltage (Voc)	-0.24% / °C
Temperature Coefficient of Power (Pmax)	-0.31% / °C

OPERATING PARAMETERS

Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A

ELECTRICAL PARAMETERS AT STC (AM 1.5g, 1000 W/m², 1m/s, 25°C) According to EN 60904-3

Peak Power	Pmax [Wp]	420	425	430	435	440	445	450
Module Efficiency	η [%]	19.35	19.57	19.80	20.04	20.27	20.49	20.73
Open-Circuit Voltage	Voc [V]	48.10	48.30	48.50	48.70	48.90	49.10	49.30
Short-Circuit Current	Isc [A]	11.15	11.22	11.31	11.39	11.46	11.53	11.60
Max Rated Voltage	Vmp [V]	40.32	40.44	40.61	40.89	41.09	41.28	41.48
Max Rated Current	Imp [A]	10.42	10.51	10.59	10.64	10.71	10.78	10.85

ELECTRICAL PARAMETERS AT NMOT (AM 1.5g, 800 W/m², 20°C) According to EN 60904-3

Peak Power	Pmax [Wp]	316.68	320.37	324.17	327.94	331.71	335.43	339.24
Open-Circuit Voltage	Voc [V]	45.70	45.89	46.08	46.27	46.46	46.65	46.84
Short-Circuit Current	Isc [A]	8.99	9.05	9.12	9.19	9.24	9.30	9.36
Rated Voltage	Vmp [V]	38.30	38.42	38.58	38.85	39.04	39.22	39.41
Rated Current	Imp [A]	8.27	8.34	8.40	8.44	8.50	8.55	8.61

PACKAGING CONFIGURATION

Modules per Box	31 Pieces
Modules per 40' Container	620 Pieces

WARRANTY

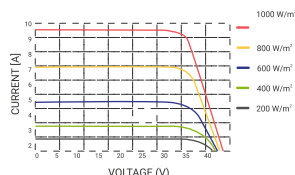
Product Warranty	12 Years
Performance Warranty	27 Years Linear Power Warranty 0.55% Annual Degradation Over 27 Years

CERTIFICATIONS

ALMM



PERFORMANCE WARRANTY



TYPICAL I-V CURVES

Average relative efficiency reduction of 5% at 200 W/m² According to EN 60904-1.
Measuring uncertainty ±3%



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the new Green!**